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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/609,016

06/27/2003

Franck Le

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EXAMINER

TIEU, BINH KIEN

ART UNIT

PAPER NUMBER

2614

MAIL DATE

DELIVERY MODE

10/11/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

**Office Action Summary**

Application No.

10/609,016

Applicant(s)

LE ET AL.

Examiner

/BINH K. TIEU/

Art Unit

2614

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 27 June 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date <u>1/7/04 &amp; 9/26/03</u> | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-11 and 15-30 are rejected under 35 U.S.C. 102(e) as being anticipated by Ohki (Pub. No.: US 2004/0137888).

Regarding claim 1, Ohki teaches a method of registering a home address of a mobile node with a home agent in a network, said method comprising the steps of:

conveying a request by the mobile node to the home agent requesting the registration of the home address;

authenticating the mobile node; and

storing the home address of the mobile node in the home agent (see paragraphs [0141] and [0143]).

Regarding claims 2-3, note paragraph [0141].

Regarding claims 4-7, note paragraph [0120] or [0143].

Regarding claim 8, note paragraph [0125].

Regarding claim 9, also note paragraphs [0143] and [0164].

Regarding claims 10-11, note paragraph [0110].

Regarding claim 15, note paragraph [0120] or [0143].

Regarding claim 16-18, note paragraphs [0072], [0077] and [0141].

Regarding claim 19, Ohki teaches a network system comprising at least a mobile node having a home address associated thereto, and a home agent, wherein the mobile node is adapted to send a request to the home agent requesting the registration of the home address, and the home agent is adapted to authenticate the mobile node and to store the home address of the mobile node in the home agent (see paragraphs [0141] and [0143]).

Regarding claim 20, note paragraph [0141].

Regarding claims 21-22, note paragraph [0120] or [0143].

Regarding claim 23, note paragraph [0125].

Regarding claim 24, Ohki teaches a home agent in a network, the network comprising at least one mobile node having a home address to be registered with the home agent by sending a request to the home agent, said home agent comprising:

means, response to said request, for authenticating the mobile node; and

means, response to said authentication, for storing the home address (see paragraphs [0141] and [0143]).

Regarding claim 25, note paragraph [0141].

Regarding claim 26, note paragraph [0120] or [0143].

Regarding claim 27, Ohki teaches a mobile device in a network, the network comprising at least a home agent, the mobile device having a home address and a network access identity, said mobile device characterized by

sending a request to the home agent for registering the home address, wherein the request includes the network access identity so as to allow the home agent to authenticate the mobile device based on the network access identity (see paragraphs [0141] and [0143]).

Regarding claim 28-30, note paragraphs [0072], [0077] and [0141].

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohki (Pub. No.: US 2004/0137888) in view of Kakemizu et al. (Pub. No.: US 2001/0036164).

Regarding claims 12-13, Ohki teaches all subject matters as claimed above, except for the feature of the lifetime can be refreshed. However, Kakemizu et al (“Kakemizu”) teaches such feature in paragraphs [0169] and [0182] for a purpose of authentication extension.

Therefore, it would have been obvious to one of ordinary skill in the art the time the invention was made to incorporate the use of the feature of the lifetime can be refreshed, as taught by Kakemizu, into view of Ohki in order to complete the request by the mobile node to the home agent.

5. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ohki (Pub. No.: US 2004/0137888) in view of Akhtar et al. (US Pat. #: 7,079,499).

Regarding claim 14, Ohki teaches all subject matters as claimed above, except for the step of authenticating the request using a hash function. However, Akhtar et al. (“Akhtar”) teaches such feature in col.88, lines 21-55 for a purpose of providing data authentication attribute value.

Therefore, it would have been obvious to one of ordinary skill in the art the time the invention was made to incorporate the use of the feature of the step of authenticating the request using a hash function, as taught by Akhtar, into view of Ohki in order to authenticated the request from the mobile terminal.

***Conclusion***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Agrawal et al. (Pub. No.: US 2004/0024901) teaches a telecommunication enhanced mobile IP architecture for intra-domain mobility.

Faccin et al. (Pub. No.: US 2002/0120844) teaches an authentication and distribution of keys in mobile IP network.

Jing et al. (Pub. No.: US 2003/0147537) teaches secure key distribution protocol in AAA for mobile IP.

All of above three references, in combination, also teaches the claimed inventions recited in the rejected claims 1-30 in this Application. Although they are not applied into this Office Action, they are also called to Applicants attention. They may be used in future. Office Action(s).

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binh K. Tieu whose telephone number is (571) 272-7510 and E-mail address: [BINH.TIEU@USPTO.GOV](mailto:BINH.TIEU@USPTO.GOV).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Curtis Kuntz, can be reached on (571) 272-7499 and **IF PAPER HAS BEEN MISSED FROM THIS OFFICIAL ACTION PACKAGE, PLEASE CALL CUSTOMER SERVICE FOR THE SUBSTITUTIONS OR COPIES.**

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Or faxed to:

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**/BINH K. TIEU/**

Primary Examiner

Technology Division 2614

Date: October 2007